

Aeronautical Systems Center

Rapidly delivering war-winning capability



Next Generation Missile Warning Subsystem

21 Oct 03

**Col Cappelano
D. Jerry Miller
ASC/GRI**

U.S. AIR FORCE



Agenda

Rapidly delivering war-winning capability

- **Welcome and Security** **Jerry Miller**
- **Program Overview**
 - **The Threat**
 - **Acquisition Strategy and NexGen MWS Schedule**
- **NexGen MWS Acquisition Planning**
 - **Funding, Program Content and Objectives**
- **SDD Acquisition Documents**
 - **SOO, SRD, RFP Documents**
- **SDD Contract Planning**
- **Summary**



Schedule



Rapidly delivering war-winning capability

Tuesday

- **0830 - 1000 NexGen MWS Overview Briefing**
- **1015 - 1145 Question and Answer Briefing**
- **1145 - 1300 Lunch**
- **1300 - 1530 NG Briefing**
- **1545 - 1700 Gov't Only Meeting**
- **Wednesday 0830 - 1600 One on One Sessions with NG Ombudsman and Gov't Team**
- **Thursday 0830 - 1600 One on One Sessions with Gov't Team**



Schedule (Cont'd)



Rapidly delivering war-winning capability

Wednesday

- **0830-0920- Lockheed Martin**
- **0930-1020- BAE Systems & DRS IR Technologies**
- **1030-1120- Raytheon**
- **1130-1300- Lunch**
- **1300-1350- CMC Electronics**
- **1400-1450- AVI Systems**
- **1500-1550- Northrop Grumman**

*** It is hoped that the one-on-one sessions not exceed the time allotted, the government may require time to caucus so the times must remain flexible. It is also possible that**



Schedule (Cont'd)



Rapidly delivering war-winning capability

Thursday

- **0830-0920- BAE & DRS**
- **0930-1020- NG**
- **1030-1120- AVI**
- **1130-1300- Lunch**
- **1300-1350- LM**
- **1400-1450- Raytheon**
- **1500-1550- CMC**



Program Overview - The

Rapidly delivering war-winning capability

Threat





LAIRCM Acquisition Strategy



Rapidly delivering war winning capability

- **Evolutionary acquisition**
 - **Balance urgency & affordability**
- **Phase I: Address present threat with available H/W**
 - **Northrop: Group B system integration/production**
 - **C-130 Group A contractor -- Leverages AFSOC DIRCM install**
 - **Boeing: C-17 Group A design & installation**
- **Phase II: New technology with cost and performance benefits - Spiral Development**
 - **Next Generation Missile Warning System (NexGen MWS)**



NexGen Acquisition Strategy



Rapidly delivering war-winning capability

- **LAIRCM Is Cross-Cutting Infrared Countermeasure Solution For Aeronautical Enterprise's Mobility Portal**
- **Evolutionary Acquisition Program Focused On "Results Now" And "Success In Increments"**
- **Next Increment Is "Next Generation Missile Warning"**
 - **Must Be Compatible With AN/AAQ-24(V) Architecture**



Rapidly delivering war-winning capability

(Cont'd)

- **Nex Gen MWS Live Fire Demonstration (Eglin AFB July - Aug 03) Provided Vendors' Opportunity to Gather Data About Their MWS's Performance Capabilities**
 - **Five Vendors Chose To Participate in Live Fire Test to Gain Data Which May be used as Substantiation For Their Subsystem's Performance In NexGen MWS Source Selection**



Draft NexGen MWS SDD Contract Sched.



Rapidly developing war-winning capability

- **Draft Sect M published on PIXS 22 Sep 03**
- **Draft SOO published on PIXS 22 Sep 03**
- **Draft Sect L published on PIXS 06 Oct 03**
- **Draft Model Cont. published on PIXS 06 Oct 03**
- **Draft RFP Comments due 15 Oct 03**
- **Final RFP Release (Estimate) 24 Nov 03**
- **Volume II due 30 Days after Final RFP Release**
- **Volumes I, III, IV, V due 45 Days after RFP Rel.**
- **Source Selection Complete Mid-Late Apr 04**
- **Contract(s) Award Early May 04**



NexGen MWS Acquisition Plan



Rapidly delivering war-winning capability

- **Source Selection Objective Is To Select the Two Best Value MWS Solutions for SD&D Contracts (Full and Open Competition)**
- **Production & Deployment Phase Source Selection Expected at the End of SDD Program (Full and Open Competition)**
- **Pre-production units needed from Development Program from each SDD contractor**
 - **SIL = 3 Units + 1 Spare**
 - **C-17 Shipset + 1 Spare (if for form, fit solution, we are assuming 6 units and 1 spare)**
 - **Option to Purchase Additional Hardware for Addition Platform**



NexGen MWS Program Planning



Rapidly delivering war-winning capability

- **Some of the Plans Are Tentative**
 - **We Are Still in the Planning Stages**
 - **As Part of the Planning We Are Seeking Inputs From Industry**
 - **One Example: Asking for Comments On Documents We Published on PIXS (Draft Sect L, M, SOO, and Model Contract, Those Comments and Information Learned in These Meetings May Help Us Plan the Program Better)**
 - **One of our expectations from contractors participating in the One on One Sessions on Thursday is Funding Profiles and Schedules**



NexGen MWS Program Funding



Rapidly delivering war-winning capability

- **Funding Available For The SDD Program Is Estimated To Be \$50 - 60M**
 - **Approximately \$25 - 30M for Each Of Two SDD Contracts**
 - **Government Reserves The Right To Award No Contract, A Single Contract Or Multiple Contracts**



SDD Program Content



Rapidly delivering war-winning capability

- **Main Program Objectives**
 - **Increase the Quality and Performance Of the Existing LAIRCM System**
 - **Develop Two MW Systems For the Possible Later Incorporation Of An Improved MWS Into LAIRCM/DIRCM Systems**
 - **Test and Verify the Performance of the SDD Systems As They Mature**
 - **Productionize the Systems For Evaluation for a later Production Contract Source Selection**



NexGen MWS Acq. Documents



Rapidly delivering war-winning capability

- **Statement of Objectives (SOO) Overview**
 - **Air Mobility Command (AMC) and AFSOC need to upgrade their Missile Warning Subsystems for the AN/AAQ-24(v) installed on selected aircraft to protect the aircraft from IR guided missiles**
 - **The overall objective of the SDD phase is to develop and verify a missile warning system that can detect, track, declare, and handoff a missile threat with sufficient time and accuracy for the associated AN/AAQ-24(v) countermeasure to be effective.**
 - **Develop, Deliver, and Maintain a Documented digital system model representation of the NexGen MW System and integrate with digital missile, clutter, false alarm, and environment representations as a means to characterize system problems, improvements, and performance.**



SOO Overview (Cont'd)



Rapidly delivering war-winning capability

- **NexGen MWS project seeks to provide a missile warning upgrade for both the DIRCM and LAIRCM programs**
- **NexGen MWS systems selected for SDD phase must be compatible, to the maximum extent practicable, with the existing fielded AN/AAQ-24(v) system.**
- **Perform production/manufacturing planning activities culminating in a production readiness review and physical and functional configuration audits**
- **(Added Since the Draft SOO was published on PIXS)**
 - **Perform the effort associated with the Reliability¹6 Development Growth Test (RDGT) for the NexGen**



NexGen Acq Documents (Cont'd)



Rapidly delivering war-winning capability

- **NexGen MWS Systems Requirement Document (SRD)**
 - **Classified “SECRET”**
 - **Identifies Specific Threats**
 - **Identifies the Performance Requirements**
- **Will Be The Basis of Evaluation for SDD Source Selection “Mission Capability” Section**



NexGen MWS Acq. Documents



Rapidly delivering war-winning capability

- **Request For Proposal (RFP) Section L
(Instructions, Conditions, and Notices to Offerors)**
 - **Identifies Federal Acquisition Regulations**
 - **Relates Detailed Instructions to Potential Offerors and Explains Various Subjects Including:**
 - **Determination of Competitive Range**
 - **POCs, Proposal Submission Information, Oral Presentations, Alternate Proposals, etc.**
 - **Explains Information To Be Included in the Volumes for Each of The Four Evaluation Criteria Factors**
 - **Past Performance “Facts Sheet” and “Transmittal Letter”**



Source Selection Documents



Rapidly delivering war-winning capability

- **RFP Section M** (Evaluation Factors for Award)
 - **Factor 1: Mission Capability**
 - **Sub-factor 1 - System Performance**
 - **Sub-factor 2 - System/Subsystem Integration and Performance Verification**
 - **Sub-factor 3 - System Support**
 - **Sub-factor 4 - Production Readiness**
 - **Sub-factor 5: Participation of Small and Minority Businesses**



Overview Cont'd



Rapidly delivering war-winning capability

- **RFP Section M**
(Evaluation Factors for Award Cont'd)
 - **Factor 2: Proposal Risk**
 - **Factor 3: Past Performance**
 - **Factor 4: Cost/Price**



SDD Contract Planning



Rapidly delivering war-winning capability

- **RFP Document Status**
 - **Draft Section M, Draft SOO, and Draft NexGen MWS SRD**
 - **All Released on PIXS For Comments On 22 Sep 03**
 - **Section L and Model Contract Drafts on PIXS**
06 Oct 03
 - **Will Update All Drafts based on comments received and results of this meeting**



SDD Contract Planning



Rapidly delivering war-winning capability

- **Contract Data Requirements List (CDRL) Will include:**
 - **Schedule Information**
 - **Cost Information**
 - **Test Reports**
 - **Milestone Progress**
 - **Etc...**



SDD Contract Planning



Rapidly delivering war-winning capability

- **Anticipate Two Cost Plus Fixed Fee Contract(s)**
- **The Gov't Seeks To Award SDD Contract(s) Based On Best Value**
 - **May Not Be Lowest Cost Offered**
- **Zero, One Or Multiple SDD Contracts**
- **Gov't May Reject any Proposal Evaluated to be Unrealistic**



Questions/Comments on Draft PIXS Documents



Rapidly delivering war-winning capability

- **The Questions/Comments on Draft PIXS Documents and Responses will be covered in the Next Briefing**
 - **S00**
 - **Section M**
 - **Section L**



Summary



Rapidly delivering war-winning capability

- **LAIRCM Is Cross-Cutting Infrared Countermeasure Solution For Aeronautical Enterprise's Mobility Portal**
- **Evolutionary Acquisition Program Focused On "Results Now" And "Success In Increments"**
- **Next Increment Is "Next Generation Missile Warning"**
- **Live Fire Demonstration (Eglin AFB July 03) Gave Vendors' Opportunity to Gather Data About Their MWS's Performance Capabilities**
- **Source Selection Objective Is To Select the Best Value MWSs For SD&D Contracts (Full and Open Comp.)**
 - **Production & Deployment Phase Source Selection At End Of SDD Program (Full and Open Competition)**
- **Must Be Compatible With AN/AAQ-24(V) Architecture**



Back- up Charts



Rapidly delivering war-winning capability



NexGen MWS SDD Contract Sched.



Rapidly delivering war-winning capability

**(As Presented during Industry
Day 11 June 03 @ Eglin AFB)**

- **Draft Sect M published by 3 July 03**
- **Draft Sect L published by 24 July 03**
- **Acquisition Plan complete 10 Sep 03**
- **Release Draft RFP 15 Sep 03**
- **Draft RFP Comments due 15 Oct 03**
- **Final RFP Release 15 Nov 03**
- **RFP Responses Due 30 Dec 03**
- **Source Selection Complete 30 Mar 04**
- **Contract(s) Award 1 April 04**